#### Amendments to the Claims

- 1-58. (Cancelled)
- 59. (Previously Presented) A femoral prosthesis, comprising: a first portion configured to cover a portion of the length of the trochlear groove on the distal end of a femur:
  - a second portion connected to a distal end of the first portion configured to overlie a portion of the intercondylar notch on the distal end of the femur, wherein the second portion comprises:
    - first and second extensions that flare outwardly from the distal end of the first portion, wherein the first extension extends transverse the first portion laterally and posteriorally of the first portion, and the second extension extends transverse the first portion medially and posteriorally of the first portion, such that the first and second extensions diverge to overlie a substantial portion of the intercondylar notch;
    - wherein the first portion tapers inwardly from medial and lateral directions to form a narrow waist adjacent the intersection of the first and second portions.
- 60. (Previously Presented) The prosthesis of claim 59 wherein the first portion comprises a concave anterior surface configured to cooperate with a convex surface of the patellar prosthesis.
- 61. (Previously Presented) The prosthesis of claim 59 wherein the first extension tapers so that a distal end of the first extension remote from the first portion is narrower than the width of the first extension adjacent the first portion.

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- 62. (Previously Presented) The prosthesis of claim 61 wherein the second extension tapers so that a distal end of the second extension remote from the first portion is narrower than the width of the second extension adiacent the first portion.
- 63. (Previously Presented) The prosthesis of claim 61 wherein a lateral edge of the first extension is configured to terminate on a lateral surface of the intercondylar notch so that the first extension does not substantially extend onto a distal surface of a lateral condyle of the femur.
- 64. (Previously Presented) The prosthesis of claim 59 wherein a medial edge of the first extension is configured to terminate on a medial surface of the intercondylar notch so that the first extension does not substantially extend onto a distal surface of a medial condyle of the femur.
- 65. (Canceled)
- 66. (Previously Presented) The prosthesis of claim 60 wherein the first and second extensions each form a generally triangular-shaped profile so that the extensions are configured to terminate within the intercondylar notch of the femur.
- 67. (Previously Presented) The prosthesis of claim 60 wherein an outer edge of one of the extensions is configured to terminate on an outer surface of the intercondylar notch so that the extension does not substantially extend onto an articular surface of a condyle of the femur.
- 68. (Previously Presented) The prosthesis of claim 60 wherein the first and second extensions project away from each other forming a gap between the first and second extensions along at least a majority of the length of the first and second extensions

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- (Previously Presented) A patello-femoral prosthesis, comprising:
  a femoral prosthesis, comprising:
  - a trochlear groove portion having a posterior surface configured to overlie
    a portion of a trochlear groove and an anterior surface forming a groove;
  - an intercondylar notch portion connected with the trochlear groove portion, wherein the intercondylar notch portion has outer edges that terminate so that the intercondylar notch portion is configured to overlie at least a portion of the intercondylar notch without substantially extending over an articular surface of a condyle, wherein the intercondylar notch portion comprises a medial or lateral extension that curves along substantially its entire length;
    - wherein the trochlear groove portion tapers inwardly from a medial and lateral direction to form a narrow waist adjacent the intercondylar notch portion; and
  - a patella portion configured to replace a surface of a patella and cooperate with the groove in the trochlear groove portion.
- (Previously Presented) The prosthesis of claim 69 wherein the intercondylar notch portion comprises medial and lateral extensions that intersect the trochlear groove portion.
- (Previously Presented) The prosthesis of claim 70 wherein the medial and lateral extensions eachs curve along substantially its entire length.
- (Previously Presented) The prosthesis of claim 70 wherein the medial and lateral extensions project away from the trochlear groove portion forming a gap between the medial and lateral extensions

- 73. (Previously Presented) The prosthesis of claim 70 wherein the medial and lateral extensions each have a width and a second end remote from the trochlear groove portion wherein a gap is formed between the second ends and the gap is substantially wider than the width of the medial and lateral extensions adjacent the second ends
- 74. (Previously Presented) The prosthesis of claim 69 in combination with a separate condyle prosthesis configured to cover an articular surface of a condyle, wherein the condyle prosthesis has an inner edge configured to cooperate with an outer edge of the intercondylar notch portion.
- 75. (Previously Presented) The prosthesis of claim 69 wherein the intercondylar notch portion comprises first and second wings projecting away from one another, wherein the first wing projects medially and posteriorly and the second wing projects laterally and posteriorly.
- (Previously Presented) The prosthesis of claim 69 wherein the intercondylar notch portion comprises a first portion that curves laterally and a second portion that curves medially, away from the first portion.

#### 77-83. (Cancelled)

- 84. (Previously Presented) A knee prosthesis for covering a portion of a patient's patella, and trochlear groove and intercondylar notch of the femur, comprising: a patellar prosthesis configured to cover a posterior surface of a patella; and a femoral prosthesis comprising:
  - a body having a posterior surface configured to cover a portion of the trochlear groove and an anterior surface forming a groove that is

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cooperable with the posterior surface of the patellar prosthesis; a medial extension projecting away from a distal end of the body configured to extend along a medial edge of the intercondylar notch: and

a lateral extension projecting away from a distal end of the body configured to extend along a lateral edge of the intercondylar notch; wherein at least one of the medial extension and the lateral extension has a length that is that is at least approximately one quarter the length of the body portion, and wherein the medial extension is transverse the lateral extension:

- a separate condyle prosthesis configured to cover an articular surface of a condyle, wherein the condyle prosthesis has an inner edge configured to cooperate with an outer edge of the either the medial or lateral extension.
- (Previously Presented) The knee prosthesis of claim 84 wherein the medial and lateral extensions intersect the body to form a generally U-shaped configuration.
- 86. (Previously Presented) The knee prosthesis of claim 84 wherein the medial and lateral extensions form opposing sides of a bearing surface configured to cooperate with the patellar prosthesis.
- 87. (Previously Presented) The knee prosthesis of claim 84 wherein the medial extension has a length and a width and the length is substantially greater than the width
- 88. (Previously Presented) The knee prosthesis of claim 87 wherein the lateral extension has a length and a width and the length is substantially greater than the width

- 89. (Previously Presented) The knee prosthesis of claim 84 wherein the medial extension has an inner edge opposing the lateral extension and an outer edge, wherein the outer edge is configured to terminate over the intercondylar notch without extending over an articular surface of the medial condyle.
- (Previously Presented) The knee prosthesis of claim 84 wherein the medial extension has an inner edge opposing the lateral extension and an outer edge, wherein the outer edge comprises a generally convexly-shaped curve.
- 91. (Previously Presented) The knee prosthesis of claim 84 wherein the lateral extension has an inner edge opposing the medial extension and an outer edge, wherein the outer edge is configured to terminate over the intercondylar notch without extending over an articular surface of the lateral condyle.
- (Previously Presented) The knee prosthesis of claim 84 wherein the lateral extension has an inner edge opposing the medial extension and an outer edge, wherein the outer edge comprises a generally convexly-shaped curve.
- 93. (Previously Presented) The knee prosthesis of claim 84 wherein the condyle prosthesis is configured to cover an articular surface of a medial condyle and has an inner edge configured to cooperate with an outer edge of the medial extension.
- 94. (Previously Presented) The knee prosthesis of claim 84 wherein the condyle prosthesis is configured to cover an articular surface of a lateral condyle and has an inner edge configured to cooperate with an outer edge of the lateral extension.

### 95-96. (Cancelled)

97. (Previously Presented) The prosthesis of claim 59 wherein the second portion

has a length that is at least approximately one quarter the length of the first portion.

- (Previously Presented) The prosthesis of claim 69 wherein the intercondylar notch portion has a length that is at least approximately one quarter the length of the trochlear groove portion.
- 99. (Canceled)